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1   Distance estimation and object location via rings of neighbors

⬧ Aleksandrs Slivkins
July 2005   PODC '05: Proceedings of the twenty-fourth annual ACM symposium on Principles of distributed computing
Publisher: ACM

Full text available: 🗎 pdf(218.32 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 59, Citation Count: 10

We consider four problems on distance estimation and object location: low-stretch routing schemes [37], distance labeling [14], searchable small worlds [22], and triangulation-based distance estimation [24]. Focusing on metrics of low doubling dimension, ...

2 Representing experimental biological data in metabolic networks

Tim Dwyer, Hardy Rolletschek, Falk Schreiber

January 2004 — APBC '04: Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29, Volume 29

Publisher: Australian Computer Society, Inc.

Full text available: pdf(752.02 KB) — Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 33, Citation Count: 1

This paper describes a novel approach to representing experimental biological data in metabolic networks. The aim is to allow biologists to visualise and analyse the data in the context of the underlying processes. Biological networks can be modelled ...

Keywords: graph drawing, metabolic networks, metabolic profiling, time series data, visualisation

3 Space-time tradeoffs for approximate spherical range counting

Sunil Arya, Theocharis Malamatos, David M. Mount

January 2005 — SODA '05: Proceedings of the sixteenth annual ACM-SIAM symposium on Discrete algorithms

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.11 MB) — Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 17, Citation Count: 4

We present space-time tradeoffs for approximate spherical range counting queries. Given a set S of n data points in R^d along with a positive approximation factor ε, the goal is to preprocess the points so that, given ...

4 Refinement methods for geometric bounds in constructive solid geometry

Stephen Cameron, Chee-Keng Yap

January 1992 — ACM Transactions on Graphics (TOG), Volume 11 Issue 1

Publisher: ACM

Full text available: pdf(1.67 MB) — Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation Count: 5

In constructive solid geometry, geometric solids are represented as trees whose leaves are labeled by primitive solids and whose internal nodes are labeled by set-theoretic operations. A bounding function in this context is an upper ...

Keywords: Boolean algebra, collision detection, constructive solid geometry, interference detection, representation simplification, robotics, solid modeling

5 B-KD trees for hardware accelerated ray tracing of dynamic scenes

Sven Woop, Gerd Marmitt, Philipp Slusallek
September   GH '06: Proceedings of the 21st ACM SIGGRAPH/Eurographics
2006   symposium on Graphics hardware
Publisher: ACM

Full text available: Publisher Site   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

This paper introduces a new spatial index structure, called *Bounded KD tree (B-KD tree)*, for realtime ray tracing of dynamic scenes. By presenting hardware units of all time critical B-KD tree algorithms in the context of a custom realtime ray ...

6 A relevance-extended multi-dimensional model for a data warehouse contextualized with documents

Juan Manuel Pérez, Rafael Berlanga, María José Aramburu, Torben Bach Pedersen
November   DOLAP '05: Proceedings of the 8th ACM international workshop on Data
2005   warehousing and OLAP
Publisher: ACM

Full text available: pdf(349.03 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 121, Citation Count: 0

Current data warehouse and OLAP technologies can be applied to analyze the structured data that companies store in their databases. The circumstances that describe the context associated with these data can be found in other internal and external sources ...

Keywords: OLAP, text-rich XML documents

7 Doxels in context for retrieval: from structure to neighbours

Delphine Verbyst, Philippe Mulhem
March   SAC '08: Proceedings of the 2008 ACM symposium on Applied computing
2008
Publisher: ACM

Full text available: pdf(286.33 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 5, Citation Count: 0

We propose in this paper a new way of considering retrieval of structured documents, by exploiting non-structural relations between structured document elements (doxels). These relations may be defined by human beings (e.g. by the authors of the documents ...

Keywords: XML retrieval, exhaustivity, relational indexing, specificity

8 Clip: a tool for mapping hierarchical schemas

Alessandro Raffio, Daniele Braga, Stefano Ceri, Paolo Papotti, Mauricio A. Hernández
June 2008   SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on Management of data
Publisher: ACM

Full text available: pdf(224.98 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 16,   Citation Count: 0

Many data integration solutions in the market today include visual tools for schema mapping. Users connect schema elements with lines that are interpreted as high-level logical expressions capturing the relationship between source and target data-sets. ...

Keywords: mapping languages, tgd, xml schema, xquery

9 Logical definability and query languages over ranked and unranked trees

Michael Benedikt, Leonid Libkin, Frank Neven
April 2007   ACM Transactions on Computational Logic (TOCL),   Volume 8 Issue 2
Publisher: ACM

Full text available: pdf(601.84 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 93,   Citation Count: 0

We study relations on trees defined by first-order constraints over a vocabulary that includes the *tree extension relation* T ≺ T' (holding if and only if every branch of T extends to a branch of T'), unary node-tests, ...

Keywords: Ranked trees, model theory, query languages, tree automata, unranked trees

10 Static scheduling algorithms for allocating directed task graphs to multiprocessors

Yu-Kwong Kwok, Ishfaq Ahmad
December 1999   ACM Computing Surveys (CSUR),   Volume 31 Issue 4
Publisher: ACM

Full text available: pdf(723.58 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 111,   Downloads (12 Months): 652,   Citation Count: 62

Static scheduling of a program represented by a directed task graph on a multiprocessor system to minimize the program completion time is a well-known problem in parallel processing. Since finding an optimal schedule is an NP-complete problem in general, ...

Keywords: DAG, automatic parallelization, multiprocessors, parallel processing, software tools, static scheduling, task graphs

11 XML data exchange: Consistency and query answering

Marcelo Arenas, Leonid Libkin
May 2008   Journal of the ACM (JACM),   Volume 55 Issue 2

Publisher: ACM

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 172,   Downloads (12 Months): 172,   Citation Count: 0

Data exchange is the problem of finding an instance of a target schema, given an instance of a source schema and a specification of the relationship between the source and the target. Theoretical foundations of data exchange have recently been investigated ...

Keywords: Data exchange, XML, computing certain answers, consistency

12 Communications of the ACM: Volume 51 Issue 3

March 2008   issue   Volume 51 Issue 3

Publisher: ACM

Full text available: pdf(7.56 MB)   digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 98,   Downloads (12 Months): 483,   Citation Count: 0

13 <u>Facial modeling and animation</u>

Jörg Haber, Demetri Terzopoulos
August   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
2004
Publisher: ACM

Full text available: <u>pdf(18.15 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>

Bibliometrics: Downloads (6 Weeks): 157,   Downloads (12 Months): 997,   Citation Count: 0

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed ...

14 <u>Modern approaches to augmented reality</u>

Oliver Bimber, Ramesh Raskar
July 2006   SIGGRAPH '06: ACM SIGGRAPH 2006 Courses
Publisher: ACM

Full text available: <u>pdf(2.45 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 402,   Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

15 <u>Simplify: a theorem prover for program checking</u>

David Detlefs, Greg Nelson, James B. Saxe
May   Journal of the ACM (JACM),   Volume 52 Issue 3
2005
Publisher: ACM

Full text available: <u>pdf(1.93 MB)</u>   Additional Information: <u>full citation</u>, <u>appendices and supplements</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

Bibliometrics: Downloads (6 Weeks): 63,   Downloads (12 Months): 410,   Citation Count: 10

This article provides a detailed description of the automatic theorem prover Simplify, which is the proof engine of the Extended Static Checkers ESC/Java and ESC/Modula-3. Simplify uses the Nelson--Oppen method to combine decision procedures for several ...

Keywords: Theorem proving, decision procedures, program checking

16 Communications of the ACM: Volume 51 Issue 7

July 2008   issue   Volume 51 Issue 7
Publisher: ACM

Full text available: pdf(6.54 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 102,   Downloads (12 Months): 102,   Citation Count: 0

17 interactions: Volume 15 Issue 1

January 2008   issue   Volume 15 Issue 1
Publisher: ACM

Full text available: pdf(9.79 MB) digital edition   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 252,   Citation Count: 0

18 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004   SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM

Full text available: pdf(7.39 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 103,   Downloads (12 Months): 734,   Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

19 Combinational logic synthesis for LUT based field programmable gate arrays

Jason Cong, Yuzheng Ding
April   ACM Transactions on Design Automation of Electronic Systems
1996   (TODAES), Volume 1 Issue 2
Publisher: ACM

Full text available: pdf(628.91 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 138,   Citation Count: 34

The increasing popularity of the field programmable gate-array (FPGA) technology has generated a great deal of interest in the algorithmic study and tool development for FPGA-specific design automation problems. The most widely used FPGAs are LUT based ...

Keywords: FPGA, area minimization, computer-aided design of VLSI, decomposition, delay minimization, delay modeling, logic optimization, power minimization, programmable logic, routing, simplification, synthesis, system design, technology mapping

20 Efficient data reduction and cache-coherent techniques toward real-time performance

Dave Kasik
August   SIGGRAPH '07: ACM SIGGRAPH 2007 courses
2007
Publisher: ACM

Full text available: pdf(11.81 MB)

Additional Information: full citation, references

Bibliometrics: Downloads (6 Weeks): 55,   Downloads (12 Months): 492,   Citation Count: 0

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